

PULSE CROP INFORMATION RESOURCES

To Discuss More, Contact:

Chad Lee
Business Development Officer
Montana Department of Agriculture
chlee@mt.gov
406.444.0132

Related Webpages

<http://agr.mt.gov/agr/Producer/CropTools/>
<http://agr.mt.gov/agr/Producer/PulseCrops/>

PRICE INFORMATION

Statpub.com <http://www.statpub.com/stat/prices/spotbid.html>

Alberta Weekly Grain Price Report <http://www.agric.gov.ab.ca/economic/stats/wkgrain.html>
[http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/sdd6248](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/sdd6248) (archive)

Government of Saskatchewan - Agriculture Market Trends <http://www.agriculture.gov.sk.ca/MarketTrends>

USDA-AMS

Weekly National Bean, Pea & Lentil Market Review
http://www.ams.usda.gov/mnreports/gl_gr851.txt
Dry Edible Bean Daily Grower Bids http://www.ams.usda.gov/mnreports/gl_gr510.txt
Bean Market News <http://www.ams.usda.gov/mnreports/lswbean.pdf>
Annual Bean Market News Review <http://www.ams.usda.gov/mnreports/lbaba.pdf>

Alberta Pulse Growers Association Feed Pea Benchmark Semi-Monthly Report
<http://www.pulse.ab.ca/ForPulseTraders/FeedPeaBenchmark/tabid/230/Default.aspx>

Pulse Canada Feed Pea Benchmark (Subscribe to Feed Pea Benchmark Weekly Report)
<http://www.pulsecanada.com/pulse-industry/feed-pea-benchmark>

North Dakota State University Extension Crop Budgets:
<http://www.ag.ndsu.edu/farmmanagement/crop-budget-archive> (archive)

INDUSTRY INFORMATION RESOURCES

Saskatchewan Pulse Growers Pulse Market Reports: (over 2 years of monthly reports):
<http://www.saskpulse.com/communications/pulse-market-report/>

Northern Pulse Growers Association <http://www.northernpulse.com/>

U.S. Dry Pea & Lentil Council <http://www.pea-lentil.com/>

Saskatchewan Pulse Growers <http://www.saskpulse.com/>

Alberta Pulse Growers <http://www.pulse.ab.ca/>

Pulse Canada <http://www.pulsecanada.com/>

Agriculture Agri-Food Canada

Outlook for Principle Field Crops http://www.agr.gc.ca/pol/mad-dam/index_e.php?s1=pubs&s2=fco-ppc
Pulse & Specialty Crops Outlook http://www.agr.gc.ca/mad-dam/index_e.php?s1=pubs&s2=spec&page=intro
Grains & Oilseeds Outlook http://www.agr.gc.ca/pol/mad-dam/index_e.php?s1=pubs&s2=go-co
Market Analysis Division Publications http://www.agr.gc.ca/pol/mad-dam/index_e.php?s1=pubs&page=intro

Pulse Australia <http://www.pulseaus.com.au/CropForecastMarketNews.aspx>

INDUSTRY INFORMATION RESOURCES *(continued)*

Agmarknet (India Ministry of Agriculture) <http://agmarknet.nic.in/>

NDSU, “Pulse Crop Marketing Guide”, August 2006 www.ag.ndsu.edu/pubs/agecon/market/ec1277.pdf

FAO’s FAOSTAT database (international production & trade):

<http://faostat.fao.org/site/339/default.aspx> (production)

<http://faostat.fao.org/site/537/default.aspx> (trade)

PULSE CROPS AS LIVESTOCK FEED

Northern Pulse Growers Association Feed/Livestock webpage (*listing of many guides/studies applied to different animal classes*) <http://www.northernpulse.com/feed/>

Pulse Canada “Canadian Feed Peas Industry Guide”, (2003, Dave Hickling, Ph.D.)

<http://www.pulsecanada.com/uploads/31/1b/311beeca01659c37ca27e91d669c2a87/Feed-Peas-English.pdf>

Field Pea Grain for Beef Cattle (2005, Vern Anderson Ph.D.)

<http://www.ag.ndsu.edu/pubs/ansci/beef/as1301.pdf>

North Dakota Superfeeds & Pea Fed Beef (2009 NDSU Presentation, Vern Anderson Ph. D.)

<http://www.northernpulse.com/uploads%5Cresources%5C472%5Cpea-fed-beef-superfeeds-npga--vern-anderson-jan-26-09.pdf>

A Guide to Feeding Field Peas to Livestock - Nutrient Content and Feeding Recommendations for Beef, Dairy, Sheep, Swine and Poultry (2002 NDSU, Vern Anderson Ph.D)

<http://www.ag.ndsu.edu/pubs/ansci/livestoc/as1224.pdf>

Using South Dakota Grown Field Peas In Swine Diets (SDSU, 2003)

<http://www.sdstate.edu/vs/extension/upload/ExEx2041-Field-Peas-in-Swine-Diets.pdf>

Saskatchewan Dept. of Agriculture (1999, Feeding Peas to Swine)

<http://www.agriculture.gov.sk.ca/Default.aspx?DN=80e71845-25e2-4ecc-9af0-2eccb51184c0>

Saskatchewan Pulse Growers Association: “Selling Feed Pulses”

<http://www.saskpulse.com/grow-buy-sell/selling-pulses/selling-feed-pulses>

PULSE CROP PRODUCTION RESOURCES

Chickpeas:

“Growing Chickpea in the Northern Great Plains”, Montana State University Extension Service; MontGuide MT 200204 AG, issued March 2002

<http://msuextension.org/publications/AgandNaturalResources/MT200204AG.pdf>

“Growing Chickpeas (Garbanzo Beans) in Montana”, Montana State University Integrated Pest Management Center, Last Update: November 16, 2001

<http://ipm.montana.edu/MPIN/Cropfiles/ChickGarb.htm>

Saskatchewan Pulse Production Manual – Chickpea

http://spg.bekinetica.ca/publications/publications/Chickpea_production_manual/

Lentils:

“Growing Lentils in Montana”, MontGuide MT 199615 AG, issued June 2001, Montana State University Extension Service <http://www.co.yellowstone.mt.gov/extension/ag/pubs/mt9615.pdf>

“Lentil Production in Montana” Last Update: September 13, 2001, Montana State University Integrated Pest Management Center / USDA Pest Management Centers / NSF Center for Integrated Pest Management <http://ipm.montana.edu/MPIN/Cropfiles/Lentil.htm>

North Dakota State University ProCrop Lentil Menu <http://www.ag.ndsu.edu/procrop/lnt/index.htm>

Saskatchewan Pulse Production Manual – Lentil
http://spg.bekinetica.ca/publications/publications/Lentil_production_manual/

Peas:

“Crop Profile for Dry Peas in Montana”, Prepared Feb, 2002 Montana State University Integrated Pest Management Center / USDA Pest Management Centers / NSF Center for Integrated Pest Management, <http://www.ipmcenters.org/CropProfiles/docs/MTdrypea.html>

“Growing Dry Pea in Montana”, MontGuide MT 200502 AG, issued May 2005, Montana State University Extension Service <http://msuextension.org/publications/AgandNaturalResources/MT200502AG.pdf>

North Dakota State University ProCrop Pea Menu <http://www.ag.ndsu.edu/procrop/pea/index.htm>

Saskatchewan Pulse Production Manual – Field Pea
http://spg.bekinetica.ca/publications/publications/Pea_Production_Manual/

All:

“Pulse Crops In Alberta”, Alberta Agriculture, Food and Rural Development, 1999. (\$35)
order from: [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/agdex17](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/agdex17)

North Dakota State University Pulse Information website <http://www.ndsu.edu/pubweb/pulse-info/>

Saskatchewan Pulse Growers Association Pest & Disease Management Webpage:
<http://www.saskpulse.com/grow-buy-sell/growing-pulses/pest-and-disease-management>

OTHER CROP PRODUCTION RESOURCES & INFORMATION

“North Dakota Weed Control Guide”, W-253, January 2012, North Dakota State University Extension Service <http://www.ag.ndsu.edu/weeds/weed-control-guides/nd-weed-control-guide-1>

Discussion of Herbicide Carryover:
<http://www.ag.ndsu.edu/weeds/weed-control-guides/nd-weed-control-guide-1/wcg-files/15-CO.pdf>

“Integrated Strategies for Managing Agricultural Weeds”, Montguide MT 200601 AG, July 2006, Montana State University Extension Service
<http://msuextension.org/publications/AgandNaturalResources/MT200601AG.pdf>

“2012 North Dakota Fungicide Guide”, North Dakota State University Extension Service
<http://www.ag.ndsu.edu/extplantpath/publications-newsletters/fungicides>

“Quick Guide to Seed Treatment Fungicides”, PP-447, North Dakota State University Extension Service
<http://www.ag.ndsu.edu/pubs/plantsci/crops/pp447.pdf>

“2012 Field Crop Insect Management Guide – E1143”, December 2011, North Dakota State University Extension Service http://www.ag.ndsu.nodak.edu/aginfo/entomology/entupdates/ICG_12/e1143_all.pdf

“Fertilizer Guidelines for Montana Crops”, Publication # EB 161, March 2005, Montana State University Extension Service <http://msuextension.org/publications/AgandNaturalResources/EB0161.pdf>

Montana State University Extension Service - Fertilizer Economics webpage
<http://landresources.montana.edu/soilfertility/fertilizereconomics.htm>

“Chapter 5.35 Nutrient Uptake and Removal by Field Crops – Western Canada”, Manitoba Forage Council Forage & Grassland Manual, referenced to the Canadian Fertilizer Institute, January, 2001.
<http://www.mbforagecouncil.mb.ca/resources/forage-grassland-manual/5-forage-fertility/535-nutrient-uptake-and-removal-by-field-crops-western-canada/>

USDA Natural Resources Conservation Service Crop Nutrient Tool <http://plants.usda.gov/npk/main>

“Nutrient Uptake and Removal”, USDA Natural Resources Conservation Service
<http://www.nrcs.usda.gov/technical/NRI/pubs/nlapp1a.html>

“Nutrient Removal Values for Field and Forage Crops”, FS014, October 2003, Rutgers Cooperative Research & Extension [http://njveg.rutgers.edu/assets/pdfs/soil/fs014-jhNutrient Removal Values for Field and Forage Crops.FS014.pdf](http://njveg.rutgers.edu/assets/pdfs/soil/fs014-jhNutrient_Removal_Values_for_Field_and_Forage_Crops.FS014.pdf)

North Dakota Crop Sequence Calculator, USDA Agriculture Research Service – Mandan
<http://www.ars.usda.gov/Services/docs.htm?docid=10791>

GRAIN & SEED TESTING RESOURCES:

Montana State Grain Lab <http://agr.mt.gov/agr/Producer/GrainLab/>

State Grain Lab – Great Falls
821 North 17th Street
Great Falls, MT 59401
406.452.9561

State Grain Lab – Plentywood
121 N Main Street
Suite 2
Plentywood, MT 59254
406.765.1005

Map:
http://agr.mt.gov/externalLinkGallery/SGL/SGL_GREATFALLS_MAP

Montana State Seed Lab <http://plantsciences.montana.edu/seedlab/>
PO Box 173145
Room 40 Marsh Lab
Bozeman, MT 59717-3145
406.994.2141

2013 Estimate - Return After Direct Costs North Central Montana Dryland

	WINTER WHEAT	SPRING WHEAT	SPRING WHEAT RECROP	MALT BARLEY	MALT BARLEY RECROP	FEED BARLEY RECROP	CANOLA	MUSTARD	GREEN PEAS	LENTILS (Richlea)	CHICKPEAS (Desi)	CHICKPEAS (Kabuli)
Yield (bu/acre, lb/acre)	43.8	27.4	22.0	46.4	35.8	35.8	1,250	627	27	1,200	1,200	1,000
Commodity Price (\$/bu or \$/lb)	\$7.00	\$8.00	\$8.00	\$6.80	\$6.80	\$4.80	\$0.2500	\$0.3500	\$10.00	\$0.17	\$0.2400	\$0.35
Crop Revenue \$/acre)	\$306.74	\$219.20	\$176.00	\$315.52	\$234.44	\$171.84	\$312.50	\$219.33	\$270.00	\$204.00	\$288.00	\$350.00
Direct Costs												
Seed	\$10.50	\$12.75	\$12.75	\$15.00	\$15.00	\$15.00	\$46.25	\$20.00	\$50.40	\$28.00	\$84.00	\$96.00
Herbicides	\$18.50	\$21.50	\$21.50	\$19.50	\$19.50	\$19.50	\$18.00	\$16.00	\$30.50	\$34.00	\$34.00	\$34.00
Fungicides	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42.00
Insecticides	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Fertilizer	\$93.35	\$71.12	\$57.11	\$48.56	\$37.47	\$37.47	\$74.27	\$37.23	\$13.90	\$10.28	\$10.28	\$8.57
Crop Insurance	\$16.38	\$13.15	\$13.31	\$15.34	\$14.60	\$14.60	\$14.01	\$25.00	\$15.00	\$19.00	\$10.07	\$24.50
Fuel & Lubrication	\$9.86	\$9.86	\$9.86	\$9.86	\$9.86	\$9.86	\$12.48	\$9.26	\$10.06	\$10.06	\$10.47	\$11.27
Trucking - to Market	\$5.72	\$3.57	\$2.87	\$4.84	\$3.74	\$3.74	\$10.19	\$2.04	\$5.28	\$7.83	\$7.83	\$6.52
Land Rent <i>(enter costs only if rent will vary between crops - such as for crop share leases)</i>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Custom Hire (Contracted Field Operations)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Machine Rent	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Direct Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Direct Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operating Interest	\$7.52	\$6.43	\$5.72	\$5.51	\$4.88	\$4.88	\$8.83	\$5.34	\$6.10	\$5.32	\$7.64	\$10.86
Total Direct Costs (\$/acre)	\$161.83	\$138.39	\$123.12	\$118.62	\$105.05	\$105.05	\$190.03	\$114.87	\$131.25	\$114.49	\$164.28	\$233.73
Return After Direct Costs (\$/acre)	\$144.91	\$80.81	\$52.88	\$196.90	\$138.39	\$66.79	\$122.47	\$104.46	\$138.75	\$89.51	\$123.72	\$116.27

CAUTION: These are estimates only - actual conditions (prices, yields, costs) will be different

2013 Estimate - Return After Direct Costs North Central Montana Irrigated

	MALT BARLEY	WINTER WHEAT	SPRING WHEAT	DURUM	CANOLA	MUSTARD	GREEN PEAS	LENTILS (Medium Green)	CHICKPEA (Kabuli)	ALFALFA (7 YR Stand Ave.)
Yield (bu/acre, lb/acre, ton/acre)	100	95	85	80	2,750	1,750	62.5	2,250	2,250	4.79
Commodity Price (\$/bu or \$/lb)	\$6.80	\$7.00	\$8.00	\$8.00	\$0.2500	\$0.3500	\$10.00	\$0.1700	\$0.3750	\$121.27
Crop Revenue \$/acre)	\$680.00	\$665.00	\$722.50	\$640.00	\$687.50	\$612.50	\$625.00	\$382.50	\$843.75	\$580.88
Direct Costs										
Seed	\$24.00	\$21.00	\$25.50	\$28.00	\$46.25	\$20.00	\$49.50	\$28.00	\$96.00	\$6.86
Herbicides	\$27.00	\$27.00	\$27.00	\$27.00	\$16.00	\$19.00	\$40.00	\$47.00	\$36.50	\$0.00
Fungicides	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$63.00	\$0.00
Insecticides	\$0.00	\$0.00	\$0.00	\$0.00	\$6.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Fertilizer	\$104.66	\$202.37	\$220.64	\$207.66	\$163.39	\$103.98	\$32.13	\$19.28	\$19.28	\$68.95
Crop Insurance	\$16.37	\$19.03	\$15.44	\$20.41	\$17.39	\$25.00	\$15.00	\$19.00	\$24.50	\$18.51
Fuel & Lubrication	\$12.51	\$12.51	\$12.51	\$12.51	\$16.56	\$15.79	\$10.20	\$10.20	\$10.97	\$15.73
Trucking - to Market	\$2.61	\$13.94	\$12.47	\$9.13	\$27.65	\$5.71	\$3.67	\$18.34	\$18.34	\$0.00
Land Rent <i>(enter costs only if rent will vary between crops - such as for crop share leases)</i>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Irrigation Costs	\$36.08	\$36.08	\$36.08	\$36.08	\$36.08	\$36.08	\$31.31	\$26.54	\$31.31	\$39.26
Custom Hire (Contracted Field Operations)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Machine Rent	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Direct Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Direct Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operating Interest	\$10.88	\$16.18	\$17.05	\$16.61	\$16.05	\$11.00	\$9.05	\$8.21	\$14.62	\$7.29
Total Direct Costs (\$/acre)	\$234.11	\$348.12	\$366.69	\$357.41	\$345.37	\$236.54	\$190.68	\$176.57	\$314.53	\$156.60
Return After Direct Costs (\$/acre)	\$445.89	\$316.88	\$313.31	\$282.59	\$342.13	\$375.96	\$434.32	\$205.93	\$529.22	\$424.28

CAUTION: These are estimates only - actual conditions (prices, yields, costs) will be different